



The LongPath

A North Alabama DX Club Publication

Special points of interest:

- Resurgens
- Christmas Party
- Short Skip
- DX Contests
- ARRL 160m Contest
- CQ WW CW Contest

How to Join

* Come to a club meeting;

* or send in an application by mail (form on www.NADXC.org)

* or call Jason Amos at (256)963-6833

Resurgens

By Tom Duncan, KG4CUY

It may be customary at the end of the year to pine for the “good old days”. Maybe the new days aren’t so bad after all—at least let’s give them the benefit of the doubt.

Project “Hello” claims it under-estimated the need for flyers aimed at attracting youngsters to ham radio by at least a factor of two. Some 40,000 have been distributed so far—indeed, one stack of several hundred delivered to Space Camp has been depleted, one attendee at a time. On Friday, 12/29 and Saturday, 12/30 HF (SSB) and VHF/UHF (Echolink and IRLP) stations set up at the new Space Camp administration building will present ham radio to 100 Space Camp attendees. Other stations are schedule, and more are signing up for this 100th anniversary celebration of voice over radio. Kids at each end will take the mike and experience the magic of one-on-one communications with someone miles away they hadn’t known of ten minutes before. Remember that?

Digital voice is fighting its way into hams’ vocabulary. D-star — perhaps expensive and somewhat parochial, but real and available — is now being tentatively embraced by more than one manufacturer. On the HF side, there is also digital voice work aimed at improving

performance in noisy conditions, and within bandwidth constraints. Plus new long-haul digital tools for other modes, like Winlink, spurred on by hams responding to calls for improved emergency preparedness.

Maybe it’s my imagination, but QSTs of late seem to have markedly improving technical content. Meaty and even innovative construction articles are re-appearing. *World Radio* seems to have found a good mix of regular contributors with antenna, propagation, and rules and regs columns we can look forward to. With *CQ*’s emphasis on operating, and rounded out by *League*, *CQ*, and other books and up-to-the-minute on-line ham radio information sources, today’s ham has no excuse beyond the availability of time for keeping in touch with the hobby.

The technical push doesn’t end there. QST’s August issue announced the Homebrew Challenge (see www.arrl.org/qst/hbc for up-to-the-minute details), and recent construction articles and hints of upcoming articles may show us how to do it. This breathes life into the designer buried inside many of us. I foresee increasing solder sales!

Speaking of solder, the *arrl_prez* email reflector has gotten some recent momentum going in the search of kits suitable for construction at radio-club-sponsored buildathons. Current HARC presi-

Christmas Party

Force of habit may lead you to Ryan’s next Tuesday. Beware: this is December, and the program is the Christmas Party, held this year at Green Hills Grille on Wynn Drive. If you know how to get to Gigaparts, you’re almost there: Green Hills is on Wynn between University and Holmes, with signs on both Wynn and Holmes. Ask for the DX Club Party—we have our own room. See you at 6:30 next Tuesday.



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The November 14th NADXC meeting was called to order at 7:00 pm, with 12 members in attendance. There were no visitors.

No applications for membership had been received during the past month.

A treasurer's report was given [details to follow later—ed.] showing there were sufficient funds on hand to support \$450 in donations to DXpeditions. The president and secretary/treasurer noted that current year actual expenditures, budgeted amounts for DXpedition support, and carryovers from last year also supported this figure.

The president raised the issue of voting for XF4DL and/or VU7 DXpeditions, based on last month's discussions, and recalled the issue had been tabled at that time for another month. Discussion on this matter took place. XF4DL was removed from consideration

quickly, as a frequently activated location. The differences between the two VU7 operations were noted by various members, viz.: VU7LD, sponsored by the Amateur Radio Society of India, was open only to Indian operators, while VU7RG, sponsored by the National Institute for Amateur Radio, would be open to foreigners. The VU7LD operation would be near the first of December, the other operation in January.

A motion was received to donate \$300 to the VU7LD operation, and to donate \$150 to the VU7RG operation. The motion was seconded, and the matter brought up for vote, which passed. The president was to send further information to the secretary/treasurer so the donations could be sent.

The meeting adjourned at 7:20, followed by KU4J's program *J3A in a Nut (meg) Shell*, and a brief DX Quiz.

Resurgens

(cont'd from page 1)

dent Chris Best, KB3DXR, has been searching for kits as well, and has come upon a few. Is the experimenter in many of us still alive, and waiting to pop out? The signs are hopeful...

Fresh faces make their way into ham radio, despite concerns about increasing average age. Robby Lock, KG4PLK (really an old timer now) and Kevin Hibbs, KG4TEI are two NADXC examples. Jordan Townsend, KI4HBO and Jim Lovell, KI4OAE are two from HARC. Then there's the Drake State ham pipeline run by Karl Henry, AI4PJ, and it may be inexhaustible.

Even in sunspot cycle dog days, there are good days, and they seem to be well-timed lately. CQ WW CW had not only great conditions on 40m and 80m (that might not surprise anyone), but a spectacular period on 15m and even

10m. As I write this, the solar flux index is 103 going into the ARRL 10m contest. Keep your fingers crossed!

And locally, we're eager (though not without some trepidation) to host the ARRL National Convention next August. The League's marketing manager, Bob Inderbitzen, NQ1R is visiting Huntsville today to meet with the hamfest committee and get a feel for Huntsville. Not every deserving ham community gets a national convention.

So this New Year's Eve, when you tip your glass to Auld Lang Syne, keep one eye on the future. The best days may be yet to come.

73, Merry Christmas, and a prosperous 2007,

Tom Duncan, KG4CUY

More FCC "Omnibus" Ruling Info

The much-anticipated FCC Report & Order related to Docket WT 04-140 (a/k/a the "Omnibus" rulemaking) has been the subject of a flurry of media comment over the last few weeks. Following publication in the *Federal Register*, the new rules will become effective on December 15. Most of the comments about the rules changes concern major changes to HF sub-band allocations. However, the R&O includes several other changes that we all should check out. Both QST and CQ have provided summaries of what is in the R&O, but to get the big picture you need to read the complete text. The URL is cited in one of the most recent "Amateur Radio News" articles on the ARRL website Home Page (www.arrl.org).

A Wealth of Antenna Data

If you'd be interested in investigating a very comprehensive library of antenna-related design, analysis, and performance information, take a look at the website of L.B. Cebik (W4RNL) at www.cebik.com. L.B. is widely recognized as a great source of definitive antenna reference material. His information is pretty technical in places, but is more than worth the time it takes to absorb what he has provided amateurs.

Want to Be a Better Contester

John Dorr (K1AR) has penned two interesting articles in the November and December issues of CQ magazine on ways to improve individual contesting skills. The November article deals with phone contesting and the December article concerns CW. Although the theme of these articles focuses on contesting, much of what he said can be directly applied to chasing DX, especially in pileups!

The "Turkey" Gobbles Loudly Again

Since the December issue of QST includes the results of the 2006 Field Day exercise, the success of K4BFT can now be considered "official." The "Big Fat Turkey" recorded the fourth highest score among the 59 participating entities who operated in Category 5A, and the 16th highest score of all the nearly 2,200 entities. Congratulations to everyone who planned and participated in FD-2006.

How About a Throw-Back CW Challenge?

The ARRL's annual "Straight Key Night" will take place December 31-January 1. This is an opportunity to put some real "skill" back in CW operations – at least for a 24-hour period – by dusting off that ol' straight key and using it rather than any electronic device. (You do know what a straight key is, don't you?) The event begins at 7:00 PM on Sunday, December 31 and ends at 7:00 PM on Monday, January 1. Participants are encouraged to engage more in rag-chews than in quick contest-type exchanges. More information concerning the event is provided in the December issue of QST.

Two Shots at Rare VU7

Lakshadweep Islands (VU7) is one of the rarer DXCC entities, but may become less rare after two upcoming DXpeditions! The first team of operators will be on the air as VU7LD by the time you read this, and plans to operate until the end of December. The second team will be active as VU7RG for a ten-day period beginning January 15. Lots more information on these two operations will be available via various websites and DX bulletins, so stay on guard. Keep your fingers crossed that propagation conditions will be favorable.

New ARRL QSL Bureau Charges

The ARRL has announced increases in the charges for using its Outgoing QSL Bureau. The announcement of the "new and simplified rate structure" (effective January 1, 2007) came too late to appear in the December issue of QST, but details are available on the ARRL website. Check it out there.

Some Parting Thoughts

The "Short Skip" column first appeared in the LongPath in February 2002, almost five years ago. It was intended to provide a few brief comments each month on a variety of different topics, not necessarily all related to DXing. Except for 2003 when Bill Gerth, W4RK, stood in for me as author, I have been pleased to put this information together each month. Hopefully, readers of the column have found it interesting. Feeling that other NADXC members should now be given an opportunity to become a contributor to the LongPath, this marks my last month as author of the Short Skip column. Thanks to all of you who have over the years offered comments and suggestions about the column and its content, and I hope you'll continue to support the new author(s). Best holiday wishes to you all.

[On behalf of the members and officers of the club, and the LongPath staff, I thank Myron for these past years of work on Short Skip. Each snippet, a combination of news and views, is a small article in itself. They have been timely reading, and all are still available on the web site. The baton is waiting to be passed to the next author.]

So Myron, from all of us:

73 es gud DX . . . de NADXC.]

73 es gud dx . . . de W4UR

DX CONTESTS for the coming month include:

ARRL Ten Meter Contest, (SSB & CW), 10 meters only
Dec. 9, 0000Z to Dec. 10, 2400Z
Exchange: RS(T) plus State or Province. DX: RST plus Ser. #.
See page 79, Dec. QST

OK DX RTTY Contest, (RTTY), 80 – 10 meters
Dec 16, 0000Z to 2400Z
Exchange: RST plus CQ Zone
See page 79, Dec. QST

Croatian CW Contest, (CW), 160 – 10 meters
Dec. 16, 1400Z to Dec. 17, 1400Z
Exchange: RST + SER. #
See page 79, Dec. QST

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Russian 160 Meter Contest (CW/SSB) 160 meters

Dec. 16, 2100Z to 2200Z and 2200Z to 2300Z (Two rounds)

Exchange: RS(T)+ Serial # + square ID (see website)

See page 79, Dec. QST and www.radio.ru/cq/contest/rule-results/index11.shtml

DARC Christmas Contest, (CW & SSB), 75/80 & 40 meters

Dec. 25, 0830Z to 1100Z

Exchange: RS(T) [+DOK or special code for DL]

See page 80, Dec. QST or www.darc.de/referate/dx/fedcx.htm

Stew Perry Topband Challenge, (CW), 160 meters

Dec. 30, 1500Z to Dec. 31, 1500Z

Exchange: Grid square only

See page 80, Dec. QST

RAC Winter Contest (CW & PHONE), 160-2 meters

Dec 30, 0000Z to 2359Z

Exchange: RS(T) plus Serial No.; VEs send RS(T) plus Province

See page 80, Dec. QST

ARRL RTTY Roundup, (RTTY), 80 – 10 Meters

Jan. 6, 1800Z to Jan. 7, 2400Z

Exchange, RS plus State/Province.



DX: RS plus Ser. #
See ARRL Website

OTHERS:

RAEM Contest

0200Z-0959Z, Dec 29

SARTG New Year RTTY Contest

0800Z-1100Z, Jan 1

AGCW Happy New Year Contest

1600Z-1900Z, Jan 1 (144)

1900Z-2100Z, Jan 1 (432)

Original QRP Contest

1500Z, Jan 6 to 1500Z, Jan 7

EUCW 160m Contest

2000Z-2300Z, Jan 6 and 0400Z-0700Z, Jan 7

Dates & times often change or are misprinted in the journals; beware.

Chuck, N4NM

Don't Miss the Party!

By the LongPath Staff

If you've been hiding under a rock, you may be unaware that the NADXC Christmas Party is Tuesday, December 12th, 6:30 pm, at the Green Hills Grille on Wynn Drive. At the party, presentation of the NADXC DXer of the Year and David L. Reasoner awards will be made.

While awards may be presented in absentia, a good crowd is required to applaud award winners (present or not) and ensure a high level of conviviality. Ask for the sumptuous DX Club Banquet Room at the front desk. We'll all have a good time.

Thank You, Mr. Fessenden

By the LongPath Staff

With this year being the 100th anniversary of voice communications via radio, it is fitting to remember the one responsible for voice, in contrast to Morse code, Reginald Fessenden.

We've all probably read a good bit about Fessenden's Christmas Eve 1906 broadcast from Brant Rock and Marshfield, MA, which has even made it into the popular press. This was a result of his failure to connect with the intended "other end" at Machrihanish, Scotland. Armed with what he felt was a usable transmitter and antenna, he temporarily turned his attentions from point-to-point communications (Marconi's interest) to broadcasting, sending out his Christmas Eve, and a week later, New Year's Eve programs of music and reading.

Fessenden lore includes influence in his youth of Alexander Graham Bell and Thomas Edison. On attending a demonstration of Bell's early telephone, Fessenden the boy is reported to have asked "why do they need wires?" Only a few years later, he gained employment as an instrument maintainer after his predecessor unexpectedly quit.

Hams remember Fessenden as the father of amplitude modulation voice transmission using high-frequency alternators as the carrier, but his interests were wider. He is credited with discovering the notion of heterodyne frequency shifting, for which he held five patents, although practical use in receivers would wait for Armstrong. Another important early radio contribution

was his electrolytic detector (demodulator), ultimately replaced by vacuum tube detectors. He also patented several antenna configurations, sonar systems and variants like fathometers (and I suspect, fish finders).

Should you have a receiver covering 88 kHz, turn it on this Christmas eve and listen for the long-delayed echo of poetry, scripture, and Victrola recordings, for the merchant fleet off Martha's Vineyard.

Thank you, Mr. Fessenden.

For Sale

ICOM 720A HF all-band transceiver, with power supply, microphone, and manual. Realistic 10 meter transceiver. Contact Ken Loeb, KG4BHM.

kenloeb1@comcast.net or 533-2568.

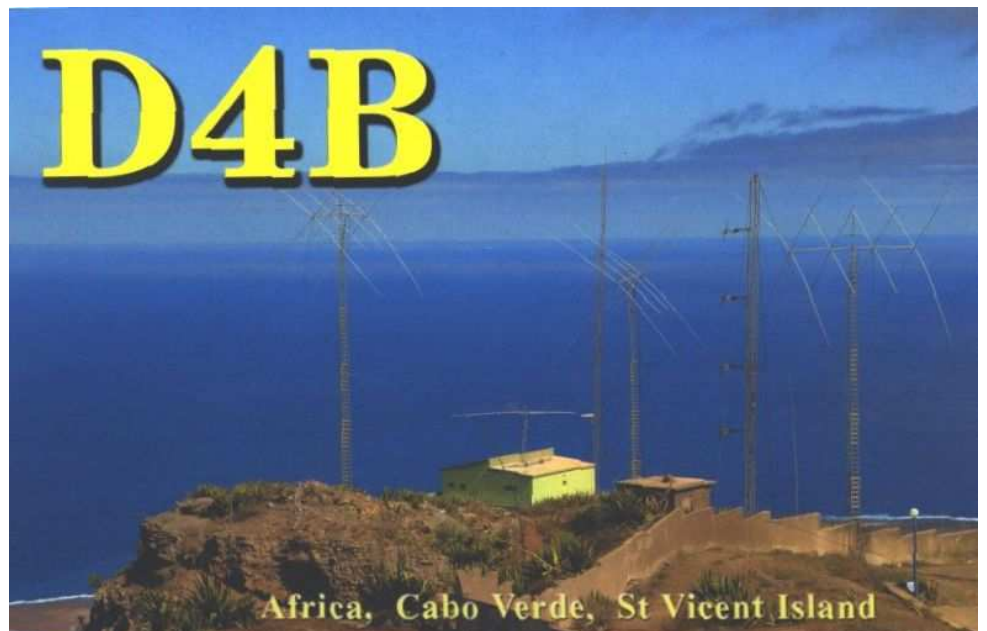
Merry Christmas

Unusual QSL Card of the Month

By The LongPath Staff

Here's a view of 4L5B's famous station on Monte Verde in the Cape Verde islands. In October, 2005, Al sold the station to Valery, RD3A for the princely sum of \$1, thereby ensuring the property continues as home to a station with a magnificent view, and low takeoff angles. This info is from recollections of Daily DX issues of that timeframe.

Many of us have this same card in our collections. Thanks N4KG for this particular card. For your card to appear in the next issue, scan the card or otherwise make the picture available to the LongPath staff, and we'll take care of the rest.



ARRL 160 Meter Contest 2006

By Tom Russell, N4KG

N4KG + Packet
Multi-Single High Power
Alabama Contest Group (ACG)

Total: QSOs 615
Sections 73
Countries 12
Total Score 107,610

Operating Time: 13.5 hrs

- Just playing around to maximize mults (w/packet).
- Started out S&P Low Power, used AMP for some DX and Runs.
- Icom 746 and 746PRO plus B&W PT2500 1KW Amp
- Antennas: Inverted L to East, Elevated GP to West.
- Beverages NOT connected (no RX antenna port on 746's)
- Missed NNY ND VE4(hrd) VE8 KL7 KP4 (Does anybody really live in NNY? North Dakota seems about as populated as NNY.)

DX:

C6AQQ F6CWN GIOKOW HI3A
HK0GU HP1/DJ7AA LY2IJ OM3GI
P40TA PJ2T YV5MBX ZF2AH
(KV4FZ) (KH6ZM)

Heard EA8AK with a never ending pileup of continuous callers.

Highlights:

- S&P ratemeter maxed out at 112 based on time for previous 10 QSO's First full hour produced 77 Q's doing Search and Pounce.
- RUN ratemeter hit over 100 many times including peak rate of 169 (11 Q's in 4 minutes) Sunday morning at 1100Z !

- Body said GO TO BED at 0450Z Sunday. Woke up for bathroom break at 0900, checked band and logged another 190 Q's between 0907 and 1248Z Sunday. Unbelievable!

Hope nobody missed ALABAMA this time around :-). Newly-formed Alabama Contest Group (ACG) was out in force with over 20 stations active!

K4TD takes the Honors with the following score:

Total: QSOs 1050
Sections 73
Countries 12
Total Score 181,815

de Tom N4KG

CQ Worldwide CW Contest 2006

By Tom Russell, N4KG

Call: N4KG Operator: N4KG

Station: N4KG

Class: SOAB HP

QTH: ALA

Operating Time: 34 hrs

Summary:

Band QSO Zone DXCC

160: 57 17 43
80: 181 25 87
40: 223 32 105
20: 319 33 108
15: 236 29 98
10: 53 14 36

Total 1070 150 477

Total Score = 1,835,856

Club: Alabama Contest Group

C o m m e n t s :

CQ WW CW DX Contest 2006 - N4KG
SOAB(Assisted) High Power (1000W)

Who needs Sun Spots? It couldn't have been better than this! Who would have dreamed of working 16 stations from 4 continents on 6 Bands, and another 15 stations on 5 Bands, including a fifth continent? See the chart below listing all stations worked on 3 or more bands.

What a BLAST chasing multipliers around on all bands (All S&P) using archaic VISUAL Packet Spots on one computer and logging on a separate laptop. This just may be my Best-Ever Multiplier Count as a Single Operator. I know, it's way past time to upgrade to modern computer technology.

As a single operator, especially with only **one radio** it is clearly impossible to cover all the bands at once. My usual strategy is to start on the highest band that is open and work my way down. This year I KNEW 40M was going to be HOT from the start but that the MUF could drop below 7 MHz, especially to Northern and Eastern Europe, a few hours after sunset.

As expected, the first 2 hours were Very Good on 40M yielding a total of 85 multipliers (Countries plus Zones). At 0200 I wanted to check 160M since many of the DX stations like to go there at the top of each hour. I wasn't disappointed, working 21 multipliers in 36 minutes in Europe (CT, DL, EA, F, G), Africa (CT3, TZ, 6W), the Caribbean (C6,

Continued on p. 7

HI, KV4), and South America (HC8, P4).

QSYing to 80M at 0240Z yielded another 21 multipliers in 20 minutes and a total of 67 multipliers by 0415. WHEW! As expected, 40M was closed to most of Europe by this time but there was plenty of activity from the Caribbean and South America.

The rest of the night was spent cycling between 40, 80, and 160 Meters. I can never seem to pull myself away from the radio to sleep when MULTIPLIERS are still coming at every turn of the dial. By 0800Z (2 a.m. CST), most of Europe is in daylight but the sun is just beginning to rise in South America, SO, what to do? Go work those elusive LU's and PY's (and PZ) on 80 and 160 Meters of course. Would you believe JA3YBK was bagged on 80M at 0847Z? Why not, it was already dark in Japan! FINALLY, OFF TO BED at 0940Z, after working CE4CT on 40M for a double multiplier.

SUNRISE brings on a whole new challenge, to pick up the Pacific areas on the Low Bands and the hordes of Europeans on 20M. As a Low Band DXer, I had to make a sweep before going to Europe on 20M. Again, I was met with some nice surprises (VK, ZL, ZK3, AH2R, KH0, more JA's and a couple of Long Path Russians in UA3 and UA9.

Of course 20M was WIDE OPEN to Europe when I finally arrived at 1330Z. After a quick 60 Q's and 39 mults in 45 minutes, I went to 15M to catch the 15M European opening which lasted about 3 hours. Remembering how I missed the 10M opening to Europe in the CQ WW Phone DX Contest, I was pleasantly surprised to find 10M open to Europe (CT, CU, EA, EA6, ZB) and Africa (CT3, EA8, TZ, 6W) along with the Caribbean and South America from 1530 to 1630Z.

I finally returned to 20M, which was suffering greatly from neglect, at 1730Z. The rest of the afternoon was

spent cycling between 15 and 20M, taking a 45 minute break at 2015-2100Z. Day 1 ended with 717 QSO's and 489 Total Multipliers.

Fatigue and sleepiness struck around sunset with poor rates until 0200Z on 160M of all places which presented a great opening to Europe (DL, EA6, ES, GD, GM, LY, OK, RU1A), Africa (CT3, EA8, 5A7A), Zone 2, and HK0. Physical and mental fatigue

made the next few hours rather unproductive and I went to bed at 0700Z for 5 hours of needed sleep.

The Sunday morning Sunrise Sweep of the Low Bands produced KL7 on 160M, E5 (ZK1), AH2R, NL7G on 80M, and several Pacific stations on 40M. Sunday would need a Heavy Emphasis on 20M to enable that band to catch up to the QSO and Multiplier totals achieved on 15, 40, and even 80 Me-

----- Q S O R a t e S u m m a r y -----

Hour	160	80	40	20	15	10	Total	Pct
0000	0	0	42	0	0	0	42	3.9
0100	0	0	48	0	0	0	48	4.4
0200	14	18	0	0	0	0	32	3.0
0300	0	36	0	0	0	0	36	3.3
0400	0	6	16	0	0	0	22	2.0
0500	5	30	0	0	0	0	35	3.2
0600	9	14	0	0	0	0	23	2.1
0700	1	9	13	0	0	0	23	2.1
0800	7	6	3	0	0	0	16	1.5
0900	0	2	5	0	0	0	7	0.6
1000	0	0	0	0	0	0	0	0.0
1100	0	0	0	0	0	0	0	0.0
1200	0	4	2	0	0	0	6	0.6
1300	0	2	11	30	0	0	43	4.0
1400	0	0	0	30	42	0	72	6.7
1500	0	0	0	0	27	19	46	4.3
1600	0	0	0	0	29	9	38	3.5
1700	0	0	0	13	10	0	23	2.1
1800	0	0	0	33	17	1	51	4.7
1900	0	0	0	18	16	0	34	3.1
2000	0	0	0	0	8	3	11	1.0
2100	0	0	0	22	8	0	30	2.8
2200	0	0	6	4	14	0	24	2.2
2300	0	0	25	7	0	0	32	3.0
0000	0	0	19	4	0	0	23	2.1
0100	0	8	7	0	0	0	15	1.4
0200	14	13	0	0	0	0	27	2.5
0300	2	18	0	0	0	0	20	1.9
0400	0	2	2	0	0	0	4	0.4
0500	4	1	0	0	0	0	5	0.5
0600	0	9	10	0	0	0	19	1.8
0700	0	0	0	0	0	0	0	0.0
0800	0	0	0	0	0	0	0	0.0
0900	0	0	0	0	0	0	0	0.0
1000	0	0	0	0	0	0	0	0.0
1100	0	0	0	0	0	0	0	0.0
1200	1	3	9	0	0	0	13	1.2
1300	0	0	0	50	0	0	50	4.6
1400	0	0	0	2	21	12	35	3.2
1500	0	0	0	32	0	4	36	3.3
1600	0	0	0	3	13	2	18	1.7

Continued on p. 8

ters. Every other hour throughout the day was spent on 20M, with the alternate hours spent covering 15 and 10M. I was pleased to find even more Africans on 10M, especially 5A7A for a 6 Band Sweep.

Day 2 ended with another 352 QSO's and another 133 total multipliers. ALL contacts were made doing Search and Pounce with packet assistance. Line Score is 1069 QSO's, 150 Zones, 477 Countries for 1,835,856 points.

As hard as I tried, I was always conscious of that fact that I was "leaving cards on the table" whenever I left a band, knowing it would be some time before I returned. Some missed multipliers include HK0 and PJ2 on 80M, EI, GM, GW, LY, V5 on 40M, E5, HR, TU, 5B, 5H on 20M, IT9, LA, LY on 15M, CX, EA9, 3V and Zone 4 on 10M, along with Zone 19 on all bands.

I can certainly see the appeal of SO2R. I just haven't convinced myself to invest the time, effort, and resources to implement the 2 radio option. It was still FUN, even with one radio. This time I used an Icom 746PRO. It was interesting playing with the (adjustable) DSP IF Filter Bandwidths. The DEEP DSP NOTCH Filter function was very effective in eliminating very close spaced QRM.

I missed the nice 'noise shaping' of the Audio Peak Filter that is in the original analog version of the Icom 746. CW definitely sounds "different" on a DSP radio and good AGC action is trickier to implement. There seems to be a slight click on the first cycle of audio on my radio. Most of the time I operated with the Pre-Amps OFF to keep the AGC well behaved. On 80 and 160M I often turned the Attenuator ON to prevent atmospheric noise from activating the AGC for better readability.

1700	0	0	0	17	7	1	25	2.3
1800	0	0	0	8	0	0	8	0.7
1900	0	0	0	17	0	0	17	1.6
2000	0	0	0	3	6	0	9	0.8
2100	0	0	0	11	14	2	27	2.5
2200	0	0	4	6	4	0	14	1.3
2300	0	0	1	9	0	0	10	0.9

Total 57 181 223 319 236 53 1069

Gross QSO's=1081 Dupes=12 Net QSO's=1069

Zone	M u l t i p l i e r							S u m m a r y	
	160	80	40	20	15	10	Total	Pct	
14	10	50	33	83	42	5	223	20.6	
15	6	41	52	71	43	0	213	19.7	
08	10	17	22	23	20	10	102	9.4	
33	5	11	11	8	11	3	49	4.5	
09	5	5	9	10	12	8	49	4.5	
05	3	5	6	15	5	5	39	3.6	
16	1	7	10	15	2	0	35	3.2	
13	0	1	5	6	17	6	35	3.2	
11	2	1	6	5	16	4	34	3.1	
20	0	4	8	8	10	0	30	2.8	
04	4	5	4	11	6	0	30	2.8	
25	0	2	10	15	3	0	30	2.8	
07	3	5	4	5	7	2	26	2.4	
06	0	4	3	6	6	0	19	1.8	
35	2	3	3	3	4	3	18	1.7	
32	0	4	6	2	4	2	18	1.7	
03	1	3	3	5	4	0	16	1.5	
27	0	1	4	6	4	0	15	1.4	
31	1	3	4	1	3	0	12	1.1	
10	1	1	2	2	2	2	10	0.9	
38	0	2	1	2	3	1	9	0.8	
01	1	2	1	3	1	0	8	0.7	
34	1	2	1	1	1	1	7	0.6	
12	0	0	2	1	3	1	7	0.6	
02	1	1	1	1	1	0	5	0.5	
21	0	0	3	1	0	0	4	0.4	
37	0	0	0	1	3	0	4	0.4	
39	0	0	1	1	1	0	3	0.3	
29	0	0	2	1	0	0	3	0.3	
30	0	1	1	0	1	0	3	0.3	
40	0	0	0	3	0	0	3	0.3	
18	0	0	2	0	0	0	2	0.2	
17	0	0	2	0	0	0	2	0.2	
36	0	0	0	1	1	0	2	0.2	
24	0	0	0	2	0	0	2	0.2	
22	0	0	1	0	0	0	1	0.1	
28	0	0	0	1	0	0	1	0.1	
Total	57	181	223	319	236	53	1069		

CQ Worldwide CW Contest 2006

(cont'd from p. 8)

The following is from a popular Contest Log Analysis Program

Unique callsigns worked = 653

The best 60 minute rate was 79/hour from 1336 to 1435

The best 30 minute rate was 84/hour from 1350 to 1419

The best 10 minute rate was 108/hour from 1426 to 1435

The best 1 minute rates were:

3 QSO's/minute 16 times.

2 QSO's/minute 113 times.

1 QSO's/minute 795 times.

There were 83 bandchanges.

Number of letters in callsigns

Letters	# worked
3	14
4	459
5	390
6	172
7	8
8	16
9	7
10	3

Multi-band QSO's	Single-band QSOs
1 bands	459 160m 19
2 bands	84 80m 76
3 bands	45 40m 89
4 bands	34 20m 174
5 bands	15 15m 89
6 bands	16 10m 12

Tom, N4KG, in North Alabama

CQ WW CW DX CONTEST 2006

N4KG	SOAB (A)	HP			
Multiband QSO's	3 Bands	4 Bands	5 Bands	6 Bands	
1	9A1P	3V6T	CT3KN	5A7A	
2	C6ART	6V7D	CU2A	6W1RW	
3	CT3NT	9A7A	FM - TO5X	8P5A	
4	CX7BY	AH2R	HI3A	9Y4AA	
5	DK3GI	CE4CT	HK0GU	CT9L	
6	DL3YM	CO8LY	IH9P	EA6IB	
7	EA5AFP	CT6A	J79Z	EA8EW	
8	EA8CN	DF0HQ	OK5W	HC8N	
9	EA8MQ	DQ4W	P40A	KP3Z	
10	EA9EU	DR1A	PZ5ZY	P40W	
11	ER4DX	E51YAQ	RU1A	PS2T	
12	ES5RR	EA4KR	V31XX	TI5N	
13	FY5FY	G5W	VP2MDG	TZ5A	
14	G4BUO	G6PZ	ZF1A	V26K	
15	GD6IA	HD2A	ZL6QH	V47NT	
16	GM3W	HG1S	*****	VP5W	
17	HR1RTF	HG3DX	15 on 5B	*****	
18	LT1F	IR4X		16 on 6B	
19	LU8YE	JA3YBK			
20	LZ9W	KL7WV			
21	NH6R	LR2F			
22	OE4A	LU4DX			
23	OL3A	LX7I			
24	OM0M	OM8A			
25	OQ5M	P40T			
26	P3F	P49Y			
27	PI4D	PJ2T			
28	PR7AB	PJ4A			
29	PT3T	VP2VVV			
30	RK2FWA	VY2TT			
31	S53EO	WP3F			
32	SK6M	XE1NTT/2			
33	UU7J	Z38N			
34	VE2WDX	ZS4TX			
35	VE3EY	*****			
36	VO1AAM	34 on 4B			
37	XE1HSW				
38	XE2S				
39	YR7M				
40	YW4D				
41	ZM1A				
42	ZY7C				

	42 on 3B				

Continued on p. 10

N4KG	SOAB(A)	HP	CQ	WW	CW	DX	CONTEST	2006	MULTIPLIERS	OA	TF	VQ9
01	*****	3D2	*	9V	*****	EP	*****	HL	*****	OA	TF	VQ9
02	*****	3D2/c	*****	9X	*****	ER	*****	HM	*****	OD	TG	VR
03	*****	3D2/r	*****	9Y	*****	ES	*****	HP	*****	OE	TI	VU
04	*****	3DA	*****	A2	*****	ET	*****	HR	*****	OH	TI9	VU4
05	*****	3V	*****	A3	*****	EU	*	HS	*****	OH0	TJ	VU7
06	*****	3W	*****	A4	*****	EX	*****	HV	*****	OJ0	TK	XE
07	*****	3Y/b	*****	A5	*****	EY	*****	HZ	*****	OK	TL	XF4
08	*****	3Y/p	*****	A6	*****	EZ	*****	I	*****	OM	TN	XT
09	*****	4J	*****	A7	*****	F	*****	IG9	*****	ON	TR	XU
10	*****	4L	**	A9	*****	FG	*****	IS	*	OX	TT	XW
11	*****	4S	*****	AP	*****	FH	*****	IT9	*****	OY	TU	XX9
12	*****	4UI	*****	BS7	*****	FJ	*	J2	*****	OZ	TX0	XZ
13	*****	4UII	*****	BV	*****	FK	*****	J3	*****	P2	TY	YA
14	*****	4UIU	*	BV9P	*****	FM	*****	J5	*****	P4	TZ	YB
15	*****	4UIV	*****	BY	*	FO	*	J6	*****	PA	UA	YI
16	*****	4W	*****	C2	*****	FO/a	*****	J7	*****	PJ2	UA2	YJ
17	*	4X	*****	C3	*****	FO/c	*****	J8	*****	PJ7	UA9	YK
18	*	5A	*****	C5	*****	FO/m	*****	JA	*****	PY	UK	YL
19	*****	5B	**	C6	*****	FP	*****	JD/m	*****	PY0F	UN	YN
20	*****	5H	*	C9	*****	FR	*****	JD/o	*****	PY0S	UR	YO
21	*	5N	*****	CE	*****	FR/g	*****	JT	*****	PY0T	V2	YS
22	*	5R	*****	CE0A	*****	FR/j	**	JW	*****	PZ	V3	YU
23	*****	5T	*****	CE0X	*****	FR/l	*****	JW/b	*****	R1FJ	V4	YV
24	*	5U	*****	CE0Z	*****	FT8W	*****	JX	*****	R1MV	V5	YV0
25	*****	5V	*****	CE9	*****	FT8X	*****	JY	*****	S0	V6	Z2
26	*****	5W	*****	CM	*****	FT8Z	*****	K	*****	S2	V7	Z3
27	*****	5X	*****	CN	*****	FW	*****	KG4	*****	S5	V8	ZA
28	*	5Z	**	CP	*****	FY	*****	KH0	*****	S7	VE	ZB
29	**	6W	*****	CT	*****	G	*****	KH1	*****	S9	VK	ZC4
30	**	6Y	**	CT3	*****	GD	*****	KH2	*****	SM	VK0H	ZD7
31	*****	70	*****	CU	*****	GI	*	KH3	*****	SP	VK0M	ZD8
32	*****	7P	*****	CX	*****	GJ	*	KH4	*****	ST	VK9C	ZD9
33	*****	7Q	*****	CY0	*****	GM	*****	KH5	*****	SU	VK9L	ZF
34	*****	7X	*	CY9	*****	GM/s	*****	KH5K	*****	SV	VK9M	ZK1/n
35	*****	8P	*****	D2	*****	GU	**	KH6	*****	SV/a	VK9N	ZK1/s
36	**	8Q	*	D4	*****	GW	*****	KH7K	*****	SV5	VK9W	ZK2
37	**	8R	*****	D6	*****	H4	*****	KH8	*****	SV9	VK9X	ZK3
38	*****	9A	*****	DL	*****	H40	*****	KH9	*****	T2	VP2E	ZL
39	*****	9G	*****	DU	*****	HA	*****	KL	*****	T30	VP2M	ZL7
40	*	9H	*	E3	*****	HB	*****	KP1	*****	T31	VP2V	ZL8
1A	*****	9J	*****	E4	*****	HB0	*	KP2	*	T32	VP5	ZL9
1S	*****	9K	*	EA	*****	HC	*****	KP4	*****	T33	VP6	ZP
3A	*****	9L	*****	EA6	*****	HC8	*****	KP5	*****	T5	VP8	ZS
3B6	*****	9M2	*****	EA8	*****	HH	*****	LA	*****	T7	VP8/g	ZS8
3B8	**	9M6	*	EA9	*****	HI	*****	LU	*****	T8	VP8/h	
3B9	*****	9N	*****	EI	*****	HK	*****	LX	*****	T9	VP8/o	
3C	*****	9Q	*****	EK	*****	HK0/a	*	LY	*****	TA	VP8/s	
3C0	*****	9U	*****	EL	*****	HK0/m	*****	LZ	*****	TA1	VP9	*